VERINT
VIDEO INTELLIGENCE SOLUTIONS

Nextiva HDR 1800

User Guide

February 06, 2013

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Contents

Preface 5

Documentation and Firmware 5
Contacting Verint 5
Contacting Service and Support 6

Safety 7

Summary of Changes 8

Revision 5 — February 2013 8
Updates 8
Revision 4 — April 2012 8
Updates 8
Revision 3 — October 2011 8
Updates 8
Revision 2 — December 2010 9
Updates 9
Revision 1 — April 2010 9
Features 9

Chapter 1: Overview of the HDR 1800 10

Hardware Overview 11
Product Dimensions and Weight 12
Monitor Configuration 12
Frame Rate and Performance 13

Chapter 2: Installing the HDR 1800 14

Package Contents 15
Installing on a Flat Surface 15
Installing in a Rack 16
Installing on a Wall 16
Powering the HDR 1800 17
Connecting Network Cables 17
Connecting Monitors 18
Connecting a CCTV Keyboard 19

Chapter 3: Configuring the HDR 1800 In Nextiva VMS 6.2 and Higher 20

Adding the HDR 1800 Using the System Setup Wizard 21
Adding the HDR 1800 Manually 22

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Configuring the HDR 1800 Network Settings 23
Configuring Monitor Output Settings 25
Defining Video Sources 27
Defining Monitors in the Virtual Matrix 28
Assigning Monitor IDs 28
Assigning Cameras to Monitors on Startup 29
Configuring On-Screen Display of Analog Monitors 30
Live and Playback Video Parameters 33
Setting Up Screens 34
Defining Camera Tours 36
Defining Salvos 38
Defining Virtual Matrix General Settings 39
Configuring the On-Screen Display 40

Appendix 4: Default Specifications and Configuration 42

Technical Specifications 43
Factory Default Configuration 45

Index 46

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Preface

The Nextiva® HDR 1800 User Guide presents information and procedures on installing, configuring, and using the HDR 1800.

Documentation and Firmware

- Download the documentation of Nextiva IP cameras and encoders from: http://www.verint.com/solutions/video-situation-intelligence/resources/index
- Download the documentation of the Nextiva VMS software and the latest firmware from the extranet: https://online.verint.com.
- Send your questions or comments on the current document, or any other Nextiva user documentation, to our documentation feedback team at documentationfeedback@verint.com

Contacting Verint

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Contacting Service and Support

To request the latest versions of firmware and software or to download other product-related documents, you need access to the Verint Video Intelligence Solutions partner extranet. To register, go to https://online.verint.com.

If you encounter any type of problem after reading this guide, contact your local distributor or Verint representative. For the main service and support page on the Verint web page, visit http://www.verint.com/solutions/video-situation-intelligence/Nextiva-Service-and-Support/index. For assistance, contact the customer service team:

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Safety

Always observe the following precautions to reduce the risk of injury and equipment damage:

- The Nextiva HDR 1800 is for indoor use only.
- The Nextiva HDR 1800 should be placed on a secure flat surface or mounted using optional hardware.
- The Nextiva HDR 1800 should only be operated in a clean, dry environment.
- The operating temperature is 32 to 104°F (0 to 40°C), with maximum humidity at 0 to 95% relative, non-condensing at 104°F (40°C).
- Only use the recommend power cable for powering the Nextiva HDR 1800.
- Do not install the Nextiva HDR 1800 in an enclosed cabinet or other small area without ventilation.

Summary of Changes

This section lists technical updates and new material added to the Nextiva HDR 1800 User Guide.

Revision 5 — February 2013

This is the fifth edition of the Nextiva HDR 1800 User Guide.

Updates

- Removed Nextiva VMS 6.1 integration.

Revision 4 — April 2012

This is the fourth edition of the Nextiva HDR 1800 User Guide.

Updates

- In Nextiva VMS 6.2, the configuration of Monitor types is now done in the **Advanced** tab of the HDR 1800.
- You can now select what information is shown on the screen.
- You can now configure the font and display properties of the On-Screen Display.

Revision 3 — October 2011

This is the third edition of the Nextiva HDR 1800 User Guide.

Updates

- Support for Nextiva VMS 6.2 and higher.

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Revision 2 — December 2010

This is the second edition of the Nextiva HDR 1800 User Guide.

Updates

The U.S. Environmental Protection Agency (EPA) announced that as a result of major success in moving the external power adapter market towards greater and more sustainable energy efficiency, effective December 31, 2010, the EPA is cancelling the Energy Star program for external power supplies (EPS). To conform to the EPA requirements, Verint is now stating the efficiency level for all EPS.

Revision 1 — April 2010

This is the first edition of the Nextiva HDR 1800 User Guide.

Features

- High-definition video decoder/receiver for use with Nextiva Virtual Matrix
- H.264/MPEG-4/MJPEG video decoding at up to 1920x1080 screen resolution
- Includes three video outputs: DVI, VGA (RGB), and BNC (Composite)
- Fully configurable in Nextiva VMS 6.1, including full integration with Nextiva S1800e encoders and Nextiva S5000 IP cameras with H.264 video compression technology.
- Supports all third-party cameras and CCTV Keyboards supported by Nextiva VMS
- Includes two serial ports: RS-232 and RS-422

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Chapter 1

Overview of the HDR 1800

The Nextiva® High Definition Receiver (HDR™ 1800 is a powerful enterprise-class, H.264 enabled video decoder/receiver designed for large-scale, geographically distributed operations. The HDR™ 1800 combine excellent performance, high-definition technology, and H.264 video decompression to enhance the functionality and versatility of Nextiva Virtual Matrix implementations.

The HDR 1800 is ideal for video surveillance applications that call for high-definition video to be displayed at multiple locations for building situational awareness and a coordinated response. Compatible with today's advanced video technologies, the HDR 1800 offers the flexibility to decode compression formats from H.264 to MPEG-4 to MJPEG and use a wide range of monitors including DVI, VGA, and traditional CCTV monitors.

The following topics are discussed:

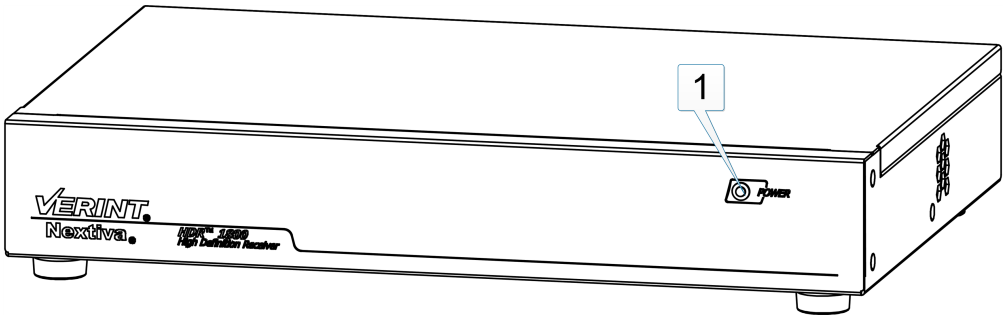
Hardware Overview 11
Monitor Configuration 12
Frame Rate and Performance 13

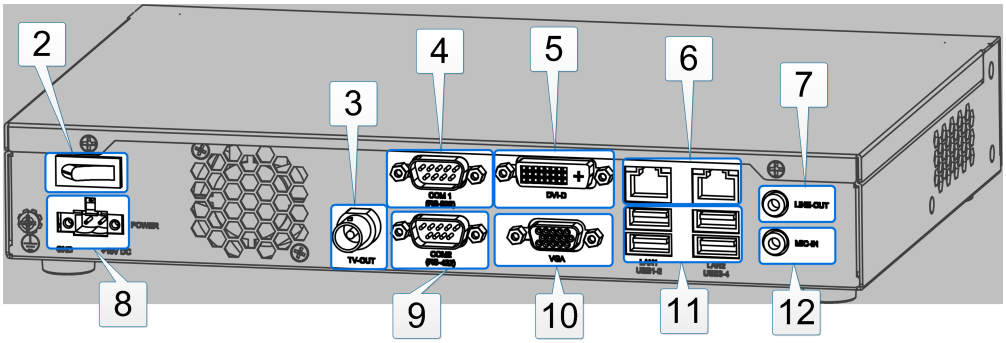
Hardware Overview

The HDR 1800 integrates seamlessly with Nextiva Virtual Matrix, which routes video to computers, video walls, and monitors across local and wide area networks (LANs/WANs). With Nextiva Virtual Matrix, authorized personnel can view live and recorded high-definition video on digital monitors, create custom video walls, control PTZ cameras, assign cameras to monitors on demand, and replay alarm-based video at multiple locations simultaneously.

The HDR 1800 is also fully integrated with Nextiva Video Management System (VMS) and Nextiva
intelligent edge devices, including the state-of-the-art S1800e encoders and S5000 high-definition IP cameras with H.264 video compression technology. In addition, the HDR 1800 supports all third-party cameras and CCTV Keyboards supported by Nextiva VMS.

Caution
The Nextiva HDR 1800 is enclosed in a non-weatherproof casing and should be placed in a location that is not exposed to the outdoor environment.





Description

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1. One Power/Status LED
2. Power button
3. One BNC connector for composite video (NTSC/PAL)
4. One RS-232 (DB9) serial port for CCTV keyboard connection
5. One Digital DVI-D connector (with HDMI support using an HDMI male to DVI male connector - *not provided*)
6. Two RJ-45 (Ethernet 10/100/1000 Base-T) network connectors
7. One Line-out, 1/8in (3.5mm) stereo jack for connecting external audio equipment
8. 19V DC +/-5% power receptacle
9. One RS-422 (DB9) serial port for CCTV keyboard connection
10. One VGA (RGB) connector
11. Four USB 2.0 ports
12. One Mic-in, 1/8in (3.5mm) stereo jack

Product Dimensions and Weight

11W × 7.5D × 1.7H in. (280W × 190D × 44H mm)

5.7lb (2.6Kg)

Monitor Configuration

You can connect either one monitor (Single monitor configuration) or two monitors (Dual monitor configuration) to the HDR 1800. In a Dual monitor configuration, the first monitor in the configuration must be connected to the DVI-D connector on the HDR 1800; the second monitor can be connected to either the VGA or BNC connectors.

> **Note**
> In the Dual monitor configuration, the total number of video tiles on both monitors cannot exceed 18 tiles.

The following table lists the monitor configuration settings for the HDR 1800.

Monitor		Connector Type	Tile Layout Options	Maximum Screen Resolution
Single Monitor	Monitor 1	• DVI-D • VGA	• 1×1 (1 tile) • 2×2 (4 tiles)	• DVI-D: Up to 1920×1200

Monitor		Connector Type	Tile Layout Options	Maximum Screen Resolution
		• BNC	• 3×2 (6 tiles) • 3×3 (9 tiles) • 4×3 (12 tiles) • 4×4 (16 tiles)	• VGA: Up to 1920×1200 • BNC: 480/576 lines (NTSC/PAL)[a]
Dual Monitor	Monitor 1	DVI-D	• 1×1 (1 tile) • 2×2 (4 tiles) • 3×2 (6 tiles) • 3×3 (9 tiles) • 4×3 (12 tiles) • 4×4 (16 tiles)	• DVI-D: Up to 1920×1200 • VGA: Up to 1920×1200 • BNC: 480/576 lines (NTSC/PAL)
	Monitor 2	VGA or BNC		

Frame Rate and Performance

The HDR 1800 supports H.264, MPEG-4, MJPEG video decoding at up to 1920×1080 screen resolution. In general, the performance for displaying video on monitors varies depending on the tile layout, screen resolution, compression mode, and bitrate. The following table lists performance values for the maximum frame rate:

The performance values listed below are provided for reference only.

	Compression Mode	
Tile Layout	MPEG-4	H.264
1 tile	1920×1080 at 30 fps	1920×1080 at 30 fps
4 tiles	4CIF at 30 fps	4CIF at 30 fps
6 tiles	4CIF at 30 fps	4CIF at 30 fps
9 tiles	4CIF at 30 fps	2CIF at 30 fps
16 tiles	2CIF at 30 fps	CIF at 30 fps
18 tiles	CIF at 30 fps	CIF at 15 fps

[a]For DVI and VGA monitors, the HDR 1800 automatically adjusts the screen resolution to the best available setting on the monitor (up to a maximum of 1920x1200).

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Chapter 2

Installing the HDR 1800

This chapter focuses on the physical installation of the HDR 1800. Network and other physical settings for the HDR 1800 are configured in Nextiva Video Management System (VMS).

The following topics are discussed:

Package Contents 15
Installing on a Flat Surface 15
Installing in a Rack 16
Installing on a Wall 16
Powering the HDR 1800 17
Connecting Network Cables 17
Connecting Monitors 18
Connecting a CCTV Keyboard 19

Package Contents

> **Caution**
> The HDR 1800 is enclosed in a non-weatherproof steel casing and should only be placed in an indoor environment.

Each installation kit comes with the following:

- One HDR 1800 featuring H.264 technology
- One set of rack-mount brackets
- One set of wall-mount brackets
- Six screws (Philips M4 × 6mm pan head)
- Four bumpons
- One AC100-240V 90W/+19V power adaptor
- One Nextiva HDR 1800 Quick Installation Guide

Installing on a Flat Surface

This section explains how to install the HDR 1800 on a desktop or flat surface.

► To install on a flat surface

1. Remove any debris and dust from the surface as well as the surrounding area.
2. Attach the four bumpons (provided) to each corner of the HDR 1800 using the provided screws.
3. Place the device on the flat surface.
4. Ensure that you have access to both the front and rear of the device and that the fan airflow is not blocked.

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Installing in a Rack

This section explains how to install the device in a rack.

► To install in a rack

1. Align the mounting brackets with the holes on the side of the device.
2. Screw the rack-mount brackets to the device using using 12 in-lb (1.35 N-m) force with 6 screws (provided).
3. Slide the device into the 1U mounting space in the rack cabinet and ensure that the fan airflow is not blocked.
4. Secure the device to the rack cabinet using the screws supplied with the rack.

Installing on a Wall

This section explains how to install the HDR 1800 on a wall.

► To install on a wall

1. Align the wall-mount brackets with the holes on the bottom of the HDR 1800.
2. Screw the wall-mount brackets to the HDR 1800 using 12 in-lb (1.35 N-m) force with 4 screws (provided).
3. Place the HDR 1800 on the wall and ensure that there is enough space on the sides of the unit for ventilation.

> **Note**
> Ensure the wall is strong enough to support the weight of the HDR 1800: 5.7lb (2.6Kg).

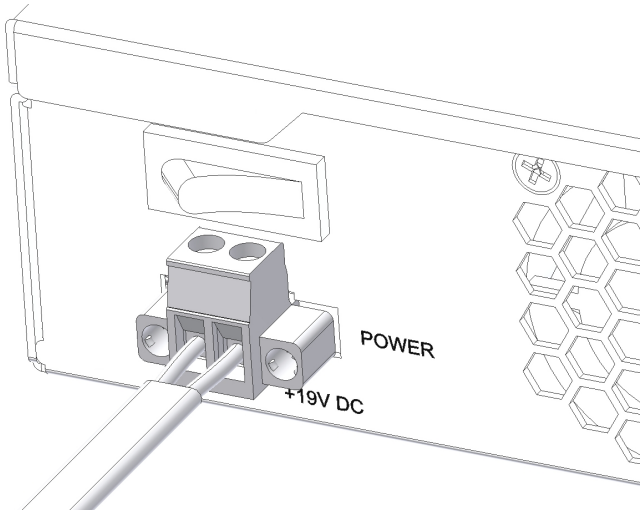
4. Secure the HDR 1800 to the wall using four wall screws (not provided) on each side of the HDR 1800.

Powering the HDR 1800

TheHDRD 1800 consumes up to 30W of power.

► To power the HDR 1800

1. Connect the 19V DC +/-5%, Terminal Block power connector to the power input receptacle on the back of the HDR 1800.



2. Secure the power connector to the receptacle by tightening the screws on each side of the connector.
3. Plug the 19V DC +/-5% power cable into an outlet or surge-protection device.

Connecting Network Cables

► To connect the network cables

1. Plug a straight-through Ethernet cable to the LAN 10/100 connector on the rear.

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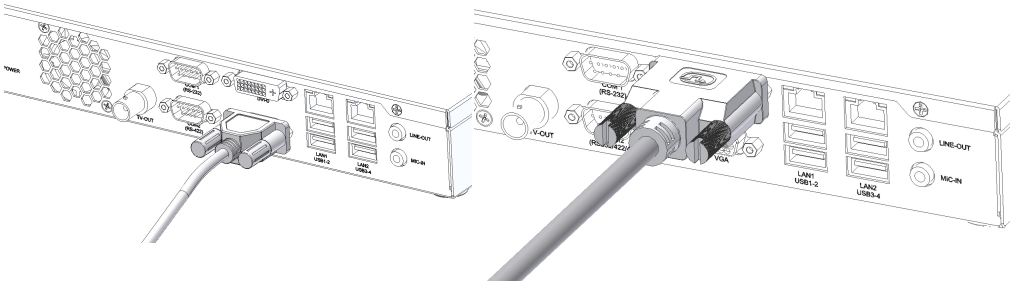
Connecting Monitors

You can connect either one monitor (Single monitor configuration) or two monitors (Dual monitor configuration) to the HDR 1800. In a Dual monitor configuration, the first monitor in the configuration must be connected to the DVI-D connector on the HDR 1800; the second monitor can be connected to either the VGA or BNC-Composite (TV Out).

► To connect monitors

1. Plug the monitor cable into the corresponding video input (DVI-D, VGA, BNC-Composite (TV Out)) on the back of the HDR 1800.



Note

In a Dual monitor configuration, the first monitor in the configuration must be connected to the DVI-D connector on the HDR 1800. You can also connect a monitor that uses the HDMI interface to the DVI-D port on the HDR 1800. You will need an HDMI male to DVI male adapter (not provided).

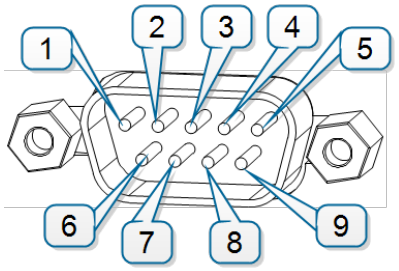
Connecting a CCTV Keyboard

The HDR 1800 supports all RS-232 and RS-422 CCTV keyboards supported in Nextiva VMS. The HDR 1800 provides two serial ports for connecting CCTV keyboards:

- COM1: RS-232 (DB9)
- COM2: RS-422 (DB9)

► To connect a CCTV keyboard

1. Use the following wiring scheme to connect the CCTV keyboard's serial cable to the corresponding serial (DB9) port on the back of the HDR 1800.



RS-232 DB9 Pin Number	Signal on CCTV Keyboard Cable	RS-422 DB9 Pin Number	Signal on CCTV Keyboard Cable
2	RxD	1	Tx-
3	TxD	2	Tx+
5	Signal ground	3	Rx+
7	RTS	4	Rx-
8	CTS	5	Signal ground

Once the connection is done, you must set the baud rate, parity, and other parameters for the serial port in Nextiva VMS Control Center.

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Chapter 3

Configuring the HDR 1800 In Nextiva VMS 6.2 and Higher

Nextiva VMS, version 6.2 and higher automatically discovers HDR 1800s installed on the Nextiva network. The HDR 1800 can be in one of two states: **Partially Discovered** or **Device belongs to foreign site**. Once the network settings is configured, add it to Physical and Logical Groups in Nextiva VMS using the System Setup Wizard.

Adding the HDR 1800 Using the System Setup Wizard 21
Adding the HDR 1800 Manually 22
Configuring the HDR 1800 Network Settings 23
Configuring Monitor Output Settings 25
Defining Video Sources 27
Defining Monitors in the Virtual Matrix 28
Configuring On-Screen Display of Analog Monitors 30
Setting Up Screens 34
Defining Camera Tours 36
Defining Salvos 38
Defining Virtual Matrix General Settings 39
Configuring the On-Screen Display 40

Adding the HDR 1800 Using the System Setup Wizard

Run the System Setup Wizard to add theHDR 1800 to the Nextiva system on a single site. Use the System Setup Wizard to:

- Organize and configure the added devices into physical and logical groups.
- Assign the devices to Nextiva Recorders and ESM Servers.
- Modify and remove Physical and Logical Groups.
- View the camera and bandwidth load for each Recorder Server.

Afterwards, you can configure the physical and logical settings for the device in the System Components workspace.

► To add the HDR 1800 using the system setup wizard

1. In Control Center, open the System Setup Wizard by doing any of the following:
   - From the **Tools** menu, click **System Setup Wizard**.
   - Click **System Components** > **Devices**, then on the toolbar click (System Setup Wizard).
   - In the status bar, click **New Devices**, then click in the **New Devices** message box that appears every 60 seconds when a new device is discovered.

     The New Devices count displays the total number of all newly discovered and partially discovered devices. Hover over this number to view the number of the devices that are partially discovered and those that are fully discovered.
2. On the **Welcome** page, click **Next**.

   > **Note**
   > The Welcome Page may not be the first page that displays. It depends on the method you used to launch the System Setup Wizard.

3. On the **Physical Groups** page, select a HDR 1800 from the **New Components** pane and drag it to the Physical Groups folder.
4. Click **Next**.
5. On the **Logical Groups** page, select the HDR 1800 from the **Physical Groups View** pane and drag it to the Monitors folder in the **Logical Groups View** pane.
6. Click **Next**.

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7. On the **Recorder Settings** page, click **Next**.
8. On the **Summary of Changes** page, review the modifications and, if required, click **Back** to make corrections or **Cancel** to exit the wizard without applying any of the modifications.
9. Click **Finish**.
10. Click **Done**.

Adding the HDR 1800 Manually

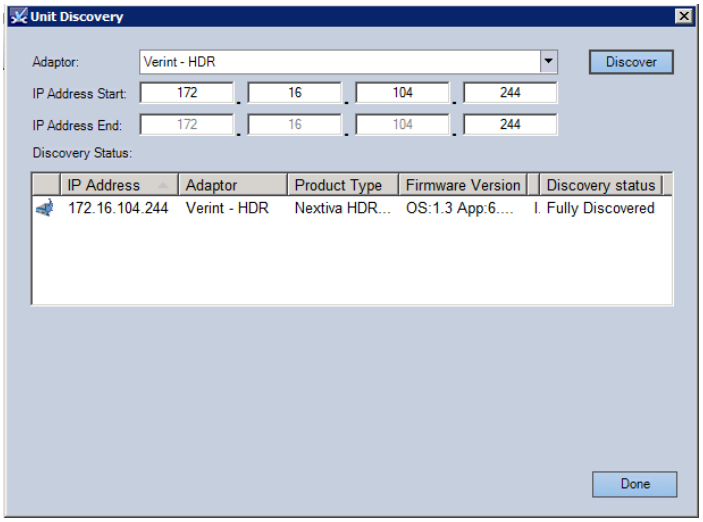
The HDR 1800 may not appear in the list of discovered devices. In that case, you must perform a manual device discovery.

> **Note**
> Devices that are installed under a different subnet do not appear in the New Components pane.

When adding a device manually, you need to specify an IP address or range, the device manufacturer, and the connection settings.

► To add the HDR 1800 manually

1. On the **Physical Groups** page of the System Setup Wizard, under **New Components**, click (**Unit Discovery**).
2. In the **Unit Discovery** dialog box, enter the IP address of the device in the **IP Address Start** boxes.



3. If you are specifying an IP address range, enter the last IP address of the range in the **IP Address End** boxes.
4. Select the manufacturer of the device from the **Adaptor** drop-down list. Otherwise, use the default, **VSIP**, for Verint edge devices.

5. When you select the manufacturer, the fields that are required for discovering the device are displayed beside **Properties**. These vary and may include Advanced properties. Refer to the integration technical note for the specific manufacturer.
6. Enter the required information in the **Properties** fields.
7. Click **Discover**.
8. All devices matching the parameters entered are displayed under **Unit(s) discovered**.
9. Repeat steps 1 to 6, if required. Then click **Done**.

Configuring the HDR 1800 Network Settings

By default, theHDR 1800 is Dynamic Host Configuration Protocol (DHCP) enabled. If you have a DHCP server, the HDR 1800 automatically obtains an IP address upon initial startup from the DHCP server.

If a DHCP server is not available on the network, the HDR 1800 assigns itself a temporary IP address based on the Automatic Private IP Addressing (APIPA) addressing format. The APIPA scheme allows a device to assign itself a temporary IP address until it receives a complete network configuration, either manually or from a DHCP server.

Nextiva VMS does not support DHCP for Nextiva edge devices. You must use a static IP address that is outside the DHCP ranage.

The fields displayed on the Network Settings tab vary according to whether you select a single device or multiple devices in the **Device Discovery** browser.

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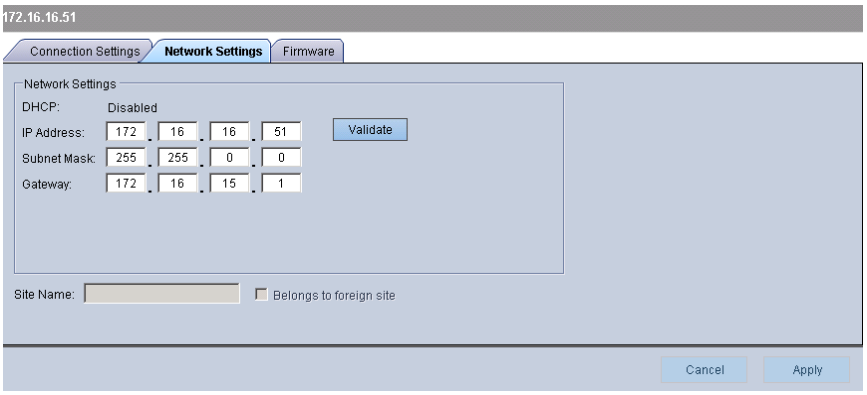
► To configure the network settings

1. In Nextiva Control Center, click **Device Discovery**.
2. Select the HDR-P in the Device Discovery Browser.
3. Select the **Network Settings** tab.



4. Do one of the following depending on the state of HDR 1800:
   - HDR 1800 in **Partially Discovered Device** state
     - Edit the IP address, Subnet Mask, Gateway, and Host Name, as required.
   - HDR 1800 in **Device belongs to foreign site** state
     - Uncheck **Belongs to foreign site.**
     - Edit the IP address, Subnet Mask, Gateway, and Host Name, as required.
5. Click **Validate** to ensure that the settings are valid.
6. Click **Apply**.

Configuring Monitor Output Settings

Before using HDR 1800, you must configure the monitor output settings. This involves setting the number of tiles or video outputs to display on each of the monitors connected to the HDR 1800, as well as setting the DVI connector type for the monitors.

> **Note**
> The number of screens that will the display depends on the number of display cards and output ports on the HDR 1800. Ports that have no monitors connected will display Connector Type: Not Connected.

The default monitor output settings for the HDR 1800 as follows:

Dual Monitor (extended desktop) configuration enabled

- Monitor 1 Connector Type: DVI
- Monitor 1 Tile layout: 2 × 2
- Monitor 2 Connector Type: DVI
- Monitor 2 Tile layout: 2×2

You can change the default settings by specifying a different Tile Layout: 1×1, 2×2 (default), 3×2, 3×3, 4×3, 4×4.

Nextiva VMS considers each tile a separate video output on the HDR 1800 and automatically assigns each tile a Monitor Name when the HDR 1800 is added to Physical and Logical Views.

> **Note**
> You can change the default settings by specifying a different **Tile Layout**: 1 × 1, 2×2 (default), 3×2, 3×3, 4×3, 4×4; or by selecting a different Connector Type: **DVI**, **VGA**, or **Composite**.

► To configure monitor output settings

1. In Nextiva Control Center, select **System Components** > **Devices**.
2. Select **Physical View**. Physical devices appear in a hierarchal tree in the Devices pane.
3. Expand the physical group where the HDR 1800 you want to update firmware on is located and select it. Upon selection, components of the

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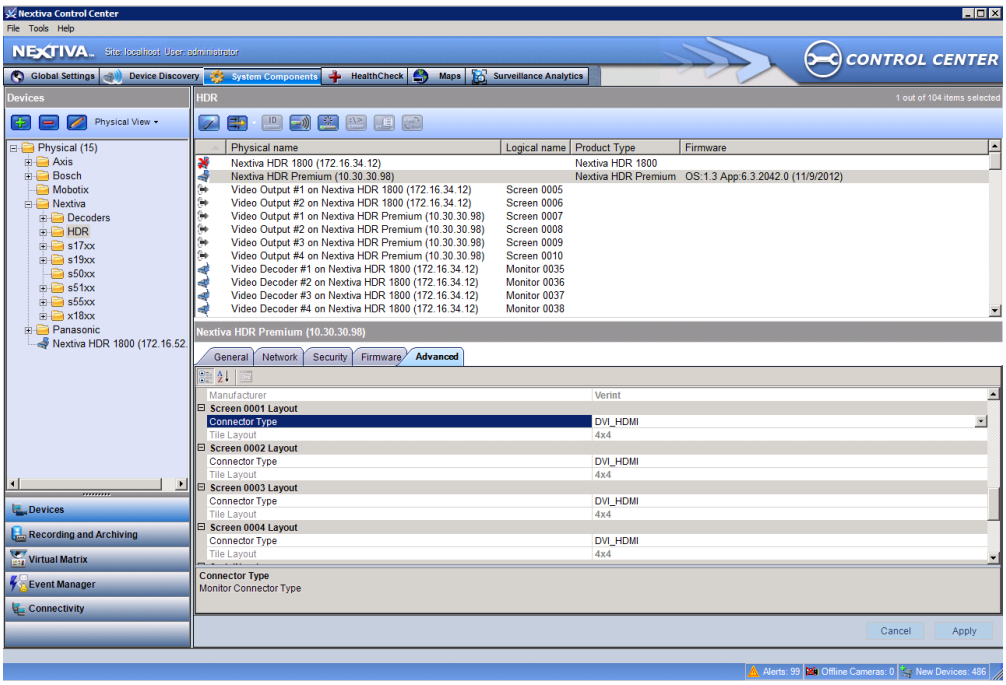
selected HDR 1800 appear in the Browser pane.

4. Select the **Advanced** tab to view current values of theHDR 1800.



5. Set the following parameters to configure monitor output settings for the HDR 1800:

For	Perform the following:
Single monitor configuration	1. Expand **Screen 001 Layout**. 2. From the **Connector Type** list, select: **DVI_HDMI** (default). 3. Expand **Screen 002 Layout**. 4. From the **Connector Type** list, select **Not Connected**.
Dual monitor configuration	1. Expand **Screen 001 Layout**. 2. From the **Connector Type** list, select: **DVI_HDMI** (default). 3. Expand **Screen 002 Layout**. 4. From the **Connector Type** list, select **DVI**.

6. Click **Apply**.

Defining Video Sources

When you want to assign a camera to a monitor connected to the HDR 1800 on start-up, you first need to add the camera to the Nextiva Virtual Matrix.

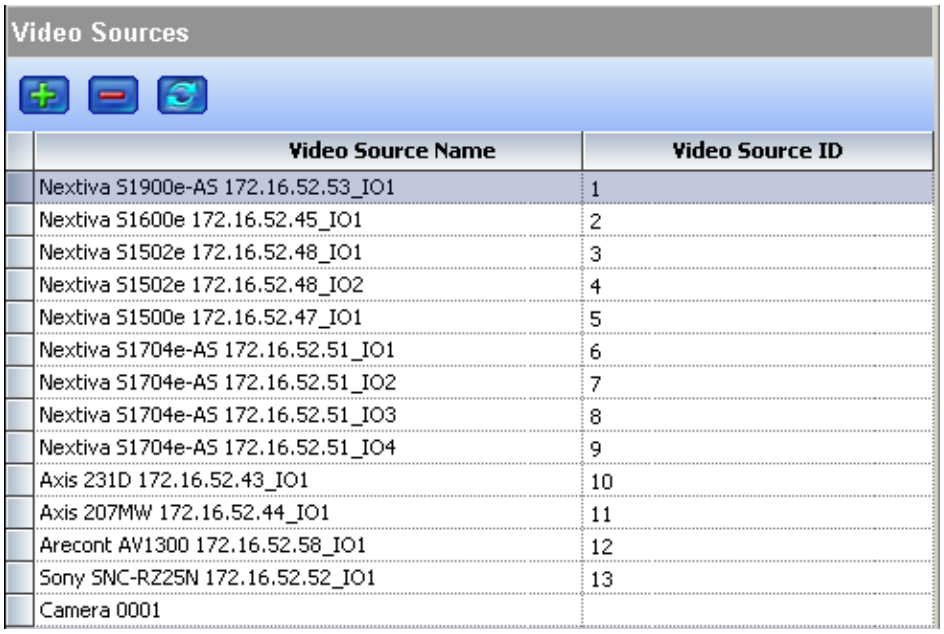
The Nextiva Virtual Matrix is a software-based solution that enables you to control CCTV equipment, such as PTZ keyboards and cameras, and create virtual matrices to automatically distribute live and recorded video, audio, and alarms across Local and Wide Area Networks (LANs/WANs).

The Video Sources editor in the Virtual Matrix lists all of the cameras that are available. To add a camera to the Virtual Matrix, you assign a Video Source ID to the camera.

► To define video sources

1. Click **System Components** > **Virtual Matrix** > **Video Sources**.

   All cameras defined in Nextiva VMS are listed under Video Source Name.



2. Assign a video source ID to one or more cameras by doing one of the following:
   - To assign a video source ID to a single camera, click a box to the left of the camera name.
   - To assign video source IDs to multiple cameras, press and hold the **Ctrl** key while clicking each box to the left of the camera name.
   - To assign video source IDs to all cameras at once, click the top-left box.
3. Click (**Assign an ID**).

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4. A sequential and unique ID number is assigned to the selected cameras.
5. Existing video source IDs are not modified when you perform this procedure.
6. To modify a video source ID, in the Video Source ID column, click on an ID value, then overwrite the value.
7. Click **Apply**.

Defining Monitors in the Virtual Matrix

When a monitor connected to the HDR 1800 is defined and configured in the Virtual Matrix, you can use it to display video from cameras or configure it to display alarm video.

They can view predetermined image sequences, video from multiple cameras on a single monitor (tours), and multiple tours at one time (salvos). The users can control PTZ cameras, assign cameras to monitors on demand, and simultaneously replay alarm-based video at multiple locations for redundancy and coordinated response.

> **Note**
> If no monitors are assigned in the virtual matrix, then camera video is displayed only in Review or WebReview. You can then use Review in conjunction with a CCTV keyboard to view camera video and to control PTZ cameras.

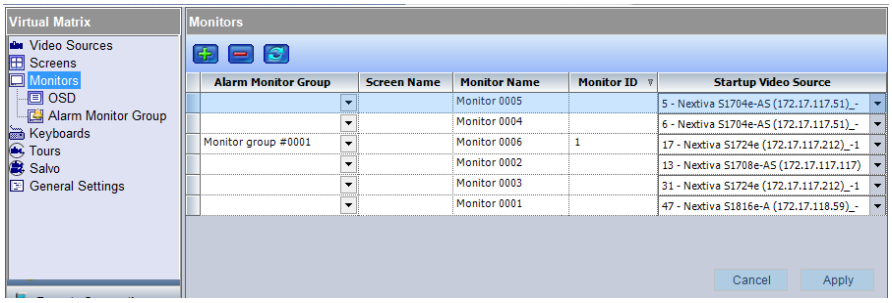
Assigning Monitor IDs

For an analog monitor to display video, it must be assigned a monitor ID in the Virtual Matrix workspace. When a monitor has an ID number, you can use that monitor in a camera tour or salvo, or to display camera video on the monitor using any CCTV keyboard.

In a multisite deployment, the monitor ID value must not exceed 999. This value should not exceed the ID value of the site to which the monitor is assigned.

► To assign monitors IDs

1. Click **System Components** > **Virtual Matrix** > **Monitors**.
2. Select a monitor row.



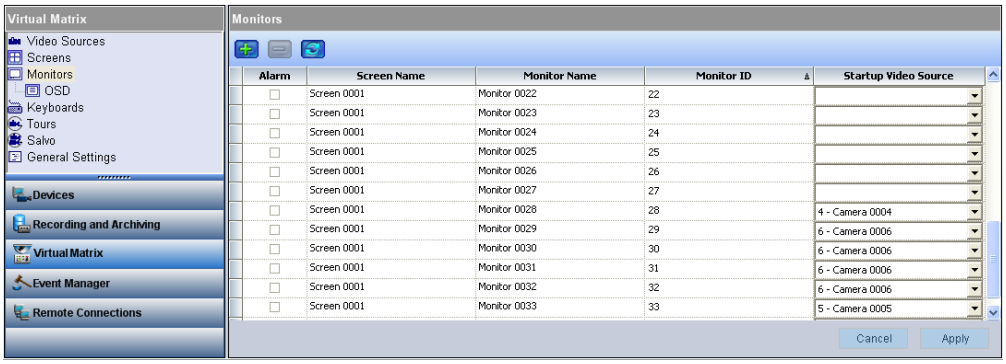
3. Assign an ID number to the selected monitor by doing one of the following:
   - To assign a monitor ID automatically, click (**Assign an ID**).
   - To assign a monitor ID manually, type the number in the Monitor ID field.
4. Click **Apply**.

Assigning Cameras to Monitors on Startup

A monitor can be configured to display the live video from a particular camera when the monitor is turned on.

► To assign cameras to monitors on startup

1. Click **System Components** > **Virtual Matrix** > **Monitors**.
2. Select a monitor row.



3. Click the **Startup Video Source** drop-down list to view all cameras that are defined as video sources for this virtual matrix, then select the camera you want to use as a video source for this monitor at start-up.
4. Click **Apply**.

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Configuring On-Screen Display of Analog Monitors

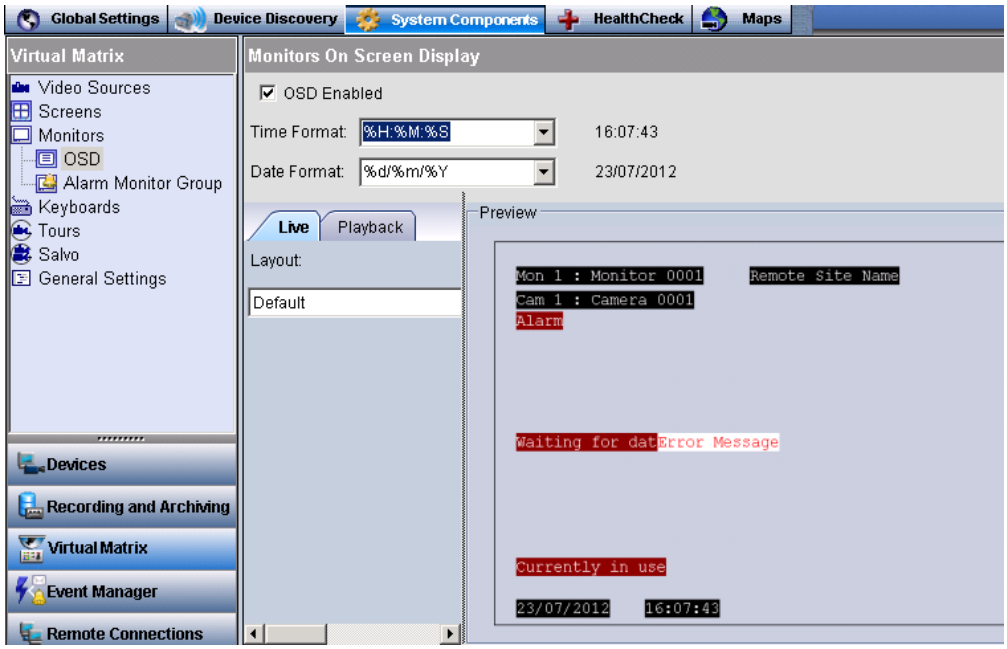
The on-screen display (OSD) is the additional information, such as the date and time, that is displayed on all analog monitors in Nextiva VMS. You can configure a different OSD for live video and for playback video. From the OSD editor, you can change the:

- Time format
- Date format
- Live and playback video parameters
- Layout and color of the parameters

The default settings are displayed when you select the **OSD** tab.

Settings apply to all analog monitors defined in Nextiva Virtual Matrix.

1. Click **System Components** > **Virtual Matrix** > **Monitor** > **OSD**.
2. Select **OSD Enabled**.



3. From the **Time Format** list, choose a format for the time, which will appear on all monitors in both live an playback mode.

To Display	Choose
12-hour format as hours:minutes:seconds For example: **03:14:00 PM**	**%H:%M:%S%p**
24-hour format as hours:minutes:seconds For example: **15:14:00**	**%H:%M:%S%**

4. From the **Date Format** list, choose a format for the date, which will appear on all monitors in both live an playback mode.

To Display	Choose
Month/day/year in four digits For example, **10/28/2010**	**%m/%d/%Y**
Month/Day/Year in two digits For example, **10/28/10**	**%m/%d/%y**
Year in four digits-month-day For example, **2010-10-28**	**%Y-%m-%d**
Day of the week, three letters of the month followed by day and year in four digits	**%A, %b %d %Y**

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To Display	Choose
For example:**Thursday, Oct 28 2010**	

5. Choose either **Live** or **Playback**.
6. Select the **Live** tab, to define the OSD layout when live video is displayed on the monitor.
7. Select the **Playback** tab, to define the OSD layout when recorded video is displayed on the monitor.
8. Choose a layout for the screen parameters.

To	Do this
Use the default OSD displayed on the right of the OSD window.	Select **Default** from the **Layout** text box
Change the default OSD configuration.	1. Select **Custom** from the **Layout** text box. 2. Click on a parameter in the list or on the preview screen. 3. Reposition the parameters on the screen by changing the number in the **Left** and **Top** text boxes to a value between 0 and 100. 4. Change the color of the characters that appear on the screen by clicking the **Text color** box, then click a color. 5. Change the color of the rectangle behind the text by click the **Text background** box, then click a color.

> **Note**
> The values in the **Left** and **Top** text boxes represent the percentage of screen that the parameter is set from the left and top margins. You can overwrite these values, but you need to stay within this defined area, between zero and 100 percent.
>
> The interior rectangle on the interface represents the underscan of the monitor. If you are using the underscan on any monitor, ensure that the parameter appears within this rectangle.

9. Click **Apply**.

Live and Playback Video Parameters

The video parameters listed in the following table are displayed on analog monitors when the option **OSD Enabled** is selected from the **Virtual Matrix > Monitors >OSD** window.

Parameter	Description
Monitor ID	Displays the Logical View monitor ID in both live and playback video.
Remote Site Name	Displays the name of the remote site in a multisite deployment.
Camera ID	Displays the Logical View camera ID in both live and playback video.
Alarm Message	Indicates that an event that triggered an alarm occurred in both live and playback video.
Video Missing	Specifies when the video clip is not available in playback video.
Error Message	Displays the received error message.
PTZ Locked (Live setting only)	PTZ Locked is displayed when the PTZ camera is in use and locked in live video.
PTZ Priority Too Low (Live setting only)	PTZ Priority Too Low is displayed when the selected PTZ camera is in being used by a user or entity with higher priority in live video.
Camera Date	Displays the current date in the selected format in both live and playback video.
Camera Time	Displays the current time in the selected format in both live and playback video.
Frame Rate (Playback setting only)	Displays the frame rate (fps) for playback video.
Frame Number (Playback setting only)	Displays the frame number in the stream in playback video.
Playback State (Playback setting only)	Displays the playback video state; for example, play, pause, or rewind.
Loading Video	Loading is displayed when you switch from live to playback

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Parameter	Description
(Playback setting)	video and are waiting for the video to load in playback video.
Loading Error (Playback setting)	An error is displayed when the video fails to load in playback video.

Setting Up Screens

When monitors are connected to the HDR 1800 decoder in the Nextiva site, you must configure how the monitors display video from the Virtual Matrix Screens editor of Control Center. Because the HDR 1800 allows you to view many video tiles on a single monitor, the following concepts are used.

- A *screen*refers to the physical peripheral display device such as a CRT monitor, LCD monitor, or computer monitor. The following image shows the screen representation in Nextiva Virtual Matrix workspace.

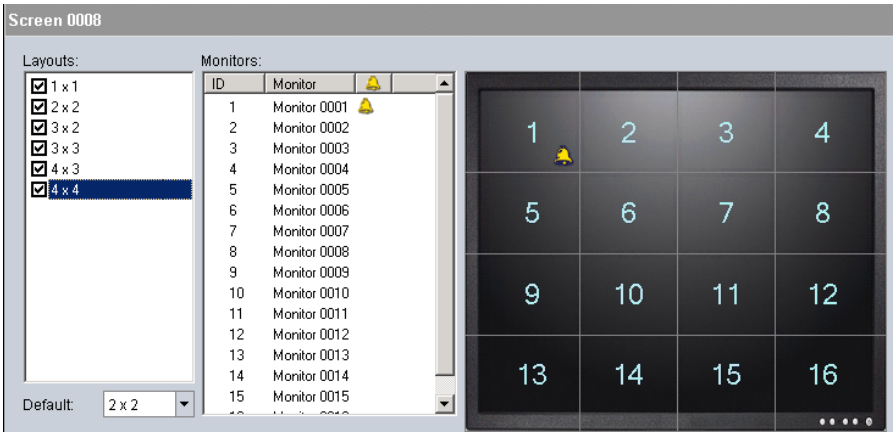
- A *monitor* is an area of a screen that displays a single video feed. It is also referred to as a tile. Monitors can be displayed on a screen in various

- A *layout*is the arrangement of multiple monitors on a screen. In Control Center, you can select the following layouts: 1x1, 2x2, 3x2, 3x3, 4x3, and 4x4. The following image shows a screen divided into a 4x4 grid layout that

comprises 16 monitors. The numbers indicate the monitor IDs.

The default layout that appears when the HDR 1800 first starts up, is set in the Active Layout list. Many CCTV keyboards allow the operator to toggle between the different layouts by using the "next or previous layout" command. If a tile is currently displaying alarm video, and the user toggles to the next layout, the VM choose the next layout that keeps the alarm video visible.

An alarm icon indicates that the monitor is set to display camera video associated to an alarm. To configure a monitor to display alarm video, add the monitor to an alarm monitor group.



Any tile can display alarm video. If an alarm tile is hidden in the selected layout, then when an alarm comes in it is shown on the first available (visible) alarm tile. However, if no alarm tiles are visible, then the alarm video will not be displayed. For example, only tile 16 of a 4 × 4 grid is assigned to display alarms, and the layout is switched to 2 × 2, which does not display tile 16, then no tiles will display alarm video. For this reason, it is recommended that the first tile always be set to display alarms, so that even in a 1 × 1 layout alarms will display.

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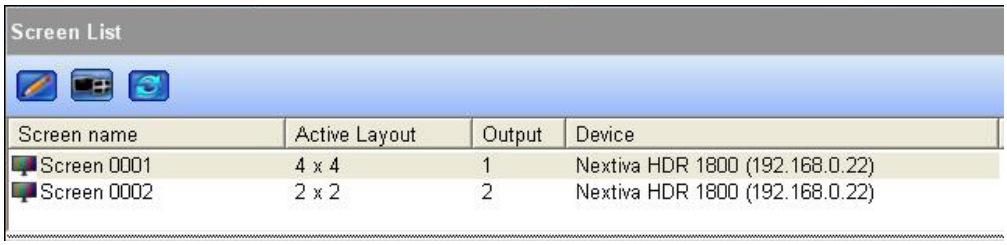
Furthermore, if a tile is currently displaying an alarm and the user tries to change the layout to one that would hide that tile, he will not be able to. When using the "next layout" or "previous layout" command from a CCTV keyboard, the VM will choose a layout that contains at least one alarm tile. For example, if the user is in 2 × 2 layout and the tile of the lower right corner is displaying an alarm and the user does a "previous layout" command, the 4 × 4 layout is shown instead of the 1 × 1 layout so the alarm tile is displayed.

Before you begin

- Add the HDR 1800 to Nextiva VMS.
- Assign Monitor IDs to monitors.

► To set up screens

1. Click **System Components** > **Virtual Matrix** > **Screens**. The Screen List contains information about the available screens and their default configuration.



2. To change the current monitor grid layout, from the screen list, select a screen, click (**Change Active Layout**), and select a grid layout option.
3. The screen display refreshes to reflect the change.
4. To set the default grid layout, from the **Default** list, choose a layout.
5. Click **Apply**.

Defining Camera Tours

A camera tour is composed of a number of cameras defined in the Virtual Matrix where each camera is given a predefined amount of time to play video in a sequence.

Another camera tour can be included in the camera tour. In this case Preset and Dwell time are defined by the original tour. When adding tours to a tour, be careful not to create an endless cycle.

The camera tour feature enables Virtual Matrix users to display multiple cameras on a single analog monitor or a single viewing window in a viewing application such as Nextiva Review.

If you are playing the tours on analog monitors, they need to be associated with Video Source IDs. However, in Nextiva Review, you can run tours even if the cameras are not associated with video source IDs.

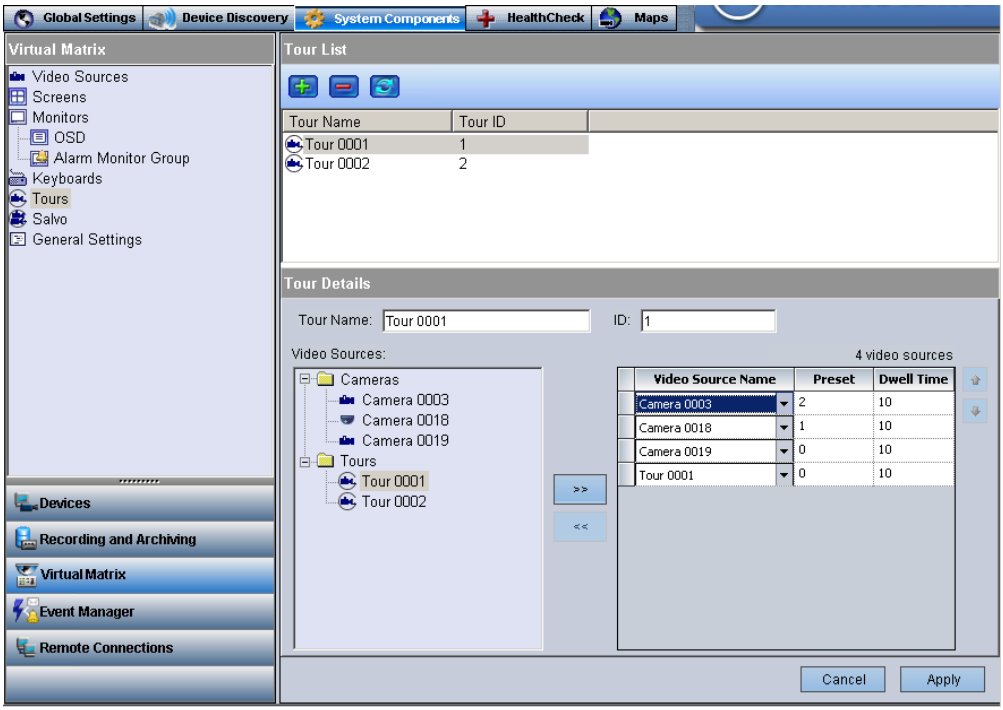
Creating a camera tour involves two steps:

1. Identifying the camera tours.
2. Associating a camera tour with one or more cameras or other tours.

If the tour will play on an analog monitor, then define video source IDs for each camera that will be in the tour.

► To define camera tours

1. Click **System Components** > **Virtual Matrix** > **Tours**.



2. Select a tour from the **Tour List** or click (**Add**) to create a new tour.

   The Tour Name and ID appear at the top of the Tour Details section. The Tour ID is automatically assigned by adding one to the last ID. You can overwrite this value. All the cameras in the system are listed by Logical Group.

3. To add the camera to the tour, from the **Video Sources** tree, select a camera, then click >> (double right arrows).

   The camera is displayed in the **Video Source Name** drop-down list.

4. Enter a Preset ID in the **Preset** text box if this is a PTZ camera and you want a Preset view.

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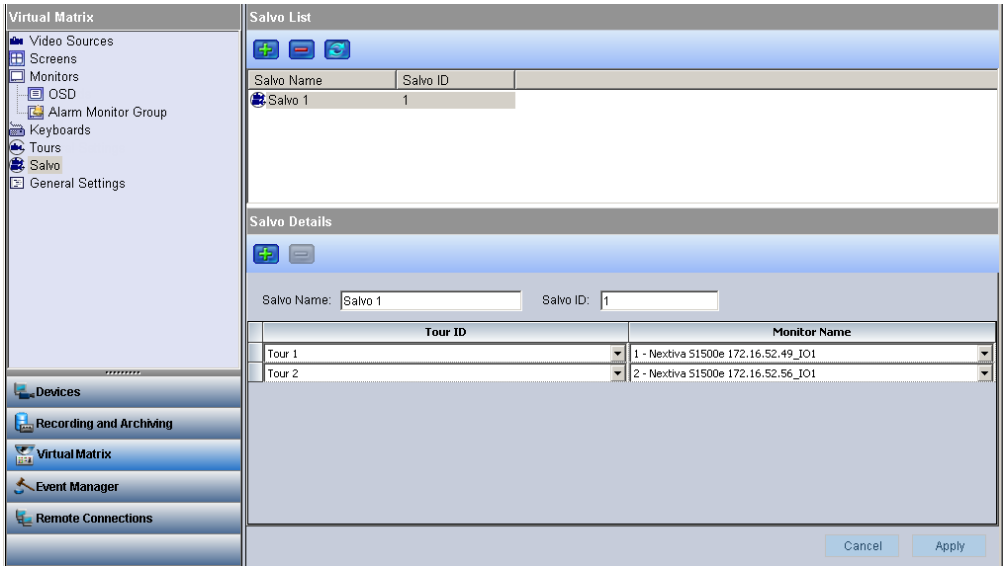
5. In the **Dwell Time** text box, enter the number of seconds to display the selected camera's video before switching to the next camera in the tour. The default dwell time is set in the General Settings editor of the Virtual Matrix workspace.
6. To add a tour to this tour, from the **Video Sources** tree, select a tour, then click >> (double right arrows).
7. Click **Apply**.

Defining Salvos

In Nextiva VMS, a salvo refers to several camera tours that run on several different analog monitors at the same time.

► To define salvos

1. Select **System Components** > **Virtual Matrix** > **Salvo**.



2. Select a Salvo from the Salvo List or click (**Add**) to create one.
3. Enter a unique name for the salvo in the **Salvo Name** text box or use the default. The Salvo ID is automatically generated by adding one to the previous ID. You can overwrite this value.
4. Click (**Add**) to add camera tours and monitors for the salvo.
5. Select the tours from the Tour ID list and the monitors from the Monitor Name list. You can add as many tours and monitors as required. However, if all monitors are in use, a message is displayed indicating that no monitor is available. In order to run the selected tour, you would need to remove another tour from the list.
6. Click **Apply**.

Defining Virtual Matrix General Settings

The Nextiva Virtual Matrix general settings define the following settings for CCTV keyboards and for cameras that are playing video in a camera tour.

Replay Duration is the length of time (in seconds) that video will run when a user makes a request for playback video from a CCTV keyboard.

Replay Delay is the amount of time (in seconds), prior to the current time request, that playback video will start, or the amount of time to rewind the video before playing the requested video segment. For example, an operator is monitoring live video. It is now 4:00 PM. This operator notices something of interest and keys in a request to replay the video. The video will replay starting at 3:50:00 and run to 3:50:30 PM — if the administrator is maintaining the default settings, a 30 second Replay Duration and a 10 minute Replay Delay.

Default Dwell Time is the default amount of time (in seconds) that each camera plays video in a Camera Tour. The dwell time can be changed for each camera in the tour. Changing this default setting does not affect the dwell time already set on existing tours.

Decoder Starve Modesets what to display on a monitor if the video feed is unavailable. Choices are a color bar, a black video, or the last image.

Alarm Queue Lengthsets the number of alarms that can be waiting for an available monitor. The minimum can be 1 alarm; the maximum 100. When there are more alarms than allowed in the queue, then depending on the display mode, the alarms will never be shown on the monitor. For example: There is one monitor. There are 2 alarms in the system. Alarm 2 is displayed on the monitor, while Alarm 1is in the queue. The Alarm queue length is set to 1. A new alarm, Alarm 3 comes in. The display mode is set to keep the newest alarm, so Alarm 2 is put in the queue and Alarm 1 is deleted from the queue. If alarm 3 and 2 are acknowledged, they will both be removed from the queue and the display. However, Alarm 1 will never be visible.

► To define the virtual matrix general settings

1. Click **System Components** > **Virtual Matrix**.
2. Click **General Settings** in the tree view on the left.
3. In the **Replay Duration** box, enter the number of seconds to run recorded video, when a request is sent from a CCTV keyboard. The default is 600 seconds (ten minutes).
4. In the **Replay Delay** box, enter the number of seconds, prior to the current time, to run playback video. This setting is applicable only to requests sent from a CCTV keyboards. The default is 30 seconds.
5. In the **Default Dwell Time** box, enter the number of seconds to play video from each camera in a camera tour. The default is 10 seconds.

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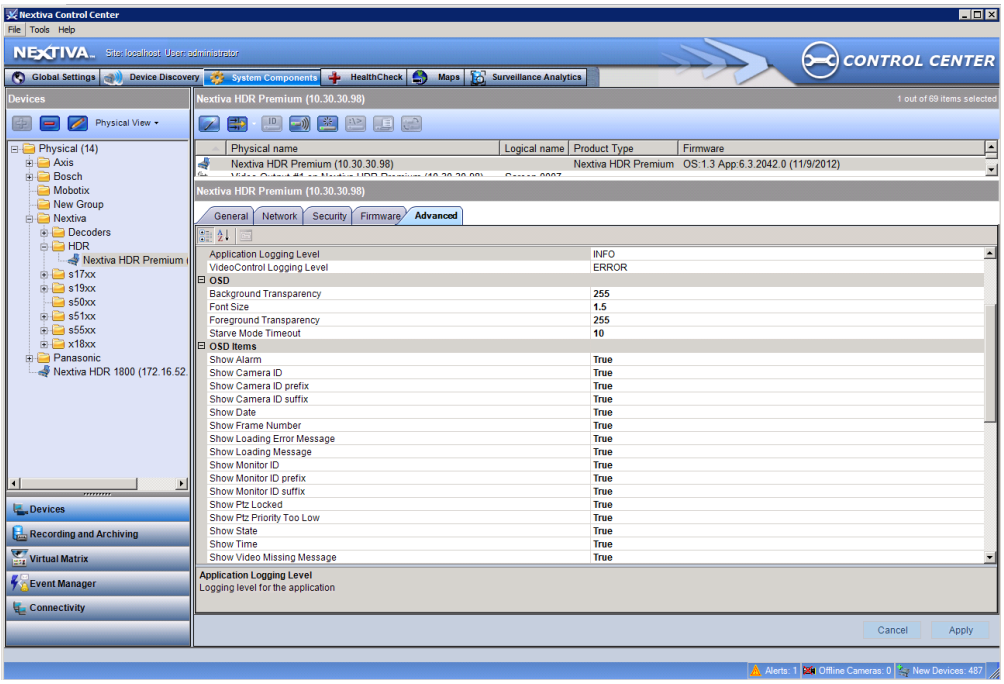
6. In the **Decoder Starve Mode** box, select the type of display picture; color bar, black video, or last image, to display when the video feed is unavailable.
7. In the **Alarm Queue Length** box, type a number from 1 to 100 to set the maximum number of alarms that can be waiting for display. The default is 50 alarms.
8. Click **Apply**.

Configuring the On-Screen Display

The on-screen display (OSD) displays information such as camera ID, date and time. The **Advanced** tab of the HDR 1800 allows you to select what information to display on all monitors. You can further customize the position of these information through the Virtual Matrix.

► To configure the OSD

1. In Nextiva Control Center, select **System Components** > **Devices**.
2. Select **Physical View**. Physical devices appear in a hierarchal tree in the Devices pane.
3. Expand the physical group where the HDR 1800 you want to update firmware on is located and select it. Upon selection, components of the selected HDR 1800 (video outputs and serial ports) appear in the Browser pane.
4. Select the **Advanced** tab to view current values of the HDR 1800.



5. Expand **OSD**, and modify the properties to view them on the screen:
   - **Background Transparency**: Set the background transparency level by typing a value from 0 to 255.
   - **Font Size**: Set the font size.
   - **Foreground Transparency**: Set the text transparency level by typing a value from 0 to 255.
   - **Starve Mode Timeout**: Set the number of seconds to wait before enabling starve mode.
6. Expand **OSD Items**, and for each item to display, set the value to **True**.
7. Click **Apply**.

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Appendix 4

Default Specifications and Configuration

The following topics are discussed:

Technical Specifications 43

Technical Specifications

The following table presents the technical specifications for the Nextiva HDR 1800:

Video	
Outputs/Connectors	One Digital DVI-D connector (with HDMI support using an HDMI male to DVI male connector - *not provided*) One VGA (RGB) connector One BNC connector for composite video (NTSC/PAL)
Monitor Configuration	DVI + VGA (RGB) DVI + BNC (Composite) DVI only VGA (RGB) only BNC (Composite) only
Tiles	Tiles display options: 1×1 (1 tile) 2×2 (4 tiles) 3×2 (6 tiles) 3×3 (9 tiles) 4×3 (12 tiles) 4×4 (16 tiles)
Monitor Resolution	DVI: Up to 1920×1200 VGA (RGB): Up to 1920×1200 BNC (Composite): 480/576 lines (NTSC/PAL)

Network	
Interface 1	RJ-45, Ethernet 10/100/1000 Base-T (for main connectivity)
Interface 2	RJ-45, Ethernet 10/100/1000 Base-T (inactive)
Protocol	TCP/IP, UDP/IP, RTSP/RTP, IGMP, FTP, APIPA
Security	Nextiva authentication

Ports	
Audio	One Line Out, 1/8in (3.5mm) Stereo jack for

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Ports	
	connecting external audio equipment One Mic in, 1/8in (3.5mm) Stereo jack for 2-way audio connections (not available)
Serial Ports	One RS-232 (DB9) serial port for CCTV keyboard connection One RS-422 (DB9) serial port for CCTV keyboard connection
USB	Four USB 2.0 ports

Power	
Input Voltage	19V DC +/-5%, Terminal Block, Efficiency Level V Power supply
Power Consumption	20W, max. 30W

Physical	
Enclosure	1U Metal case with flange mount (black)
Dimensions	11W × 7.5D × 1.7H in. (280W × 190D × 44H mm)
Weight	5.7lb (2.6Kg)
Operating Temperature	Operating: 32 to 104°F (0 to 40°C) Storage: -22 to 140°F (-30°C to 60°C)
Humidity	0 to 95% relative, non-condensing at 104°F (40°C)
Mounting Options	Rack Mount Kit (included) and Wall/Table Mount Kit (included)

Management	
Configuration and Firmware Upgrade	Supported through Nextiva VMS Control Center

Warranty
3-year limited warranty covering parts and labor (for the Americas). Contact your Verint representative for warranty details for your regions.

Factory Default Configuration

The Nextiva HDR 1800 is programmed at the factory with the following configuration:

Component/Parameter	Default Settings
Serial ports (RS-232 and RS-422)	Bit rate: 115200 bps Data bits: 7 Parity: odd Stop bit: 2
Network	DHCP configuration: Enabled
Monitor Output Settings	**Dual Monitor (extended desktop)** configuration enabled Monitor 1 Connector Type: DVI Monitor 1 Tile layout: 2×2 Monitor 2 Connector Type: VGA Monitor 2 Tile layout: 2×2
Audio	Output: *Tile* 1 on *Monitor* 1 Volume: 100
Aspect Ratio	False
Time Zone	GMT Daylight Savings Time adjusted automatically The system time on the HDR-P automatically synchronizes with the Nextiva VMS Master Server.

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Index

A

alarm queue length 39
analog monitors
    assigning IDs to 28
    on-screen display (OSD)
        configuring 30
assigning
    monitor IDs 28

C

camera tours
    defining 36
    dwell time
        modifying 39
CCTV Keyboard
    Connecting 19
Change Active Layout 36
color bar 39
configuration
    default 45
Configuring Network Settings 23
Configuring OSD 40
Connecting CCTV Keyboard 19

D

decoder starve mode 39
default configuration 45
dwell time
    as playback time in camera tours 39

E

edge devices.See intelligent edge devices 21
equipment list 15

F

factory default configuration 45
Flat Surface
    Installing 15

I

Installing Flat Surface 15
Installing Rack 16
Installing Wall 16
intelligent edge devices
    adding manually 22
    discovering 21

L

layout 34
layouts
    screen 34
        See also monitors vs. screens 34
loading default configuration 45

M

monitor 34
    camera on startup 29
    defining in virtual matrix 28
Monitor Output Settings
    Setting Monitor Output 25
monitors
    decoder starve mode 39

N

Network Cable Connection 17
Network Settings
    Configuring 23

O

on-screen display (OSD)
    configuring
        on analog monitors 30
    live and playback video parameters 33
options, when ordering a device 15
OSD
    Configuring 40
OSD.See on-screen display (OSD) 30

R

Rack
Installing 16
replay delay
in playback video request 39
replay duration
in playback video request 39
reset to factory default 45

S

salvos
setting up 38
screen 34
startup video source 29

V

virtual matrix
analog monitors
defining in 28
camera tours
defining for 36
general setting
defining 39
VM alarm monitor groups
length of alarm queue 39

W

Wall
Installing 16

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